

# The Space Network

## TURN-KEY SOLUTIONS

Need flexibility? The Space Network is the answer. They provide a broad suite of low and high-rate, forward and return communications services for a variety of mission phases and orbits. Need flexibility with scheduling? How does a Space Network-provided web client sound? Want IP-based access to your data? Take advantage of the real time/TCP and file transfer services.





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## RELIABLE COMMUNICATIONS

The Space Network is capable of providing 100% continuous coverage up to 9,000 km. This global network provides nearly 8 million minutes of S-, Ku-, and Ka-band communications services per year with above 99.95% proficiency.

### Cross Support

Able to provide forward and return services supplied by different telecommunications frequency bands.

### Demand Access

Capability to immediately support continuous or intermittent, conflict-free, S-band return link services 24 hours per day, seven days per week upon demand. Beam forming, demodulation, data distribution, and storage capabilities.

### Ranging Services

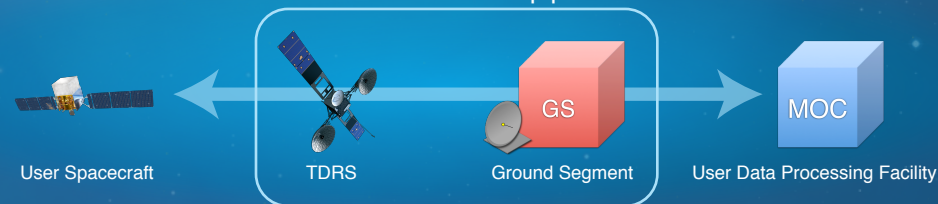
One- and two-way doppler, two-way ranging, Ka-band single access return one-way doppler

### Frequency Band Support

Service	Current Cap (Mbps)	SGSS Planned Upgrade (Mbps)
MAF	.3	.3
MAR	3	3
SSAF	7	14
SSAR	6	24
KuSAF	25	250
KuSAR	300	600
KaSAR	Intermediate Frequency Service	1,200



The White Sands Complex is the Space Network's central operations center. Data taken at the Guam Remote Site is piped back to White Sands.



Space Network Services

National Aeronautics and Space Administration

### Space Network Project

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[www.nasa.gov](http://www.nasa.gov)

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